

## INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/GB 03/04529

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E02D27/42 E02D27/52 E04H12/22 F03D1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E02D E04H F03D E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CH 363 463 A (ANDERSSON GUSTAV MATTIAS) 31 July 1962 (1962-07-31)	1-6, 10-14
Y	page 1, line 35 -page 2, line 5 figures 1,2	7-9,15
Y	CH 241 601 A (DESMEULES FRERES) 31 March 1946 (1946-03-31)	7,9
	page 1, line 31 -page 1, line 44 claims 2,4; figures 1-3	
Y	US 4 406 094 A (HEMPEL JOACHIM ET AL) 27 September 1983 (1983-09-27)	7,8,15
	figure 1	
A	DE 597 543 C (OTTO WEINLIG DR;HEINRICH TOUSSAINT) 26 May 1934 (1934-05-26)	1,7,9
	figure 1	
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

4 February 2004

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# INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 196 07 972 C (STRAEB GMBH & CO GEB) 15 January 1998 (1998-01-15) figures 1,13,15,30 ----	1-15
A	US 6 425 708 B1 (SIEGFRIEDSEN SONKE) 30 July 2002 (2002-07-30) claim 1; figures 1-3 ----	16,22
A	US 3 716 994 A (POGONOWSKI I) 20 February 1973 (1973-02-20) figures 1-3 ----	1,16,22
A	US 4 720 214 A (BRASTED LEE K ET AL) 19 January 1988 (1988-01-19) figures 1,5 -----	16

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CH 363463	A	31-07-1962	NONE
CH 241601	A	31-03-1946	NONE
US 4406094	A	27-09-1983	DE 3007442 A1 03-09-1981 FR 2477198 A1 04-09-1981 NL 8100231 A 01-10-1981 SE 442310 B 16-12-1985 SE 8100608 A 29-08-1981
DE 597543	C	26-05-1934	NONE
DE 19607972	C	15-01-1998	DE 19607972 C1 15-01-1998
US 6425708	B1	30-07-2002	DE 19860211 C1 23-11-2000 AT 222670 T 15-09-2002 AU 3030800 A 31-07-2000 CN 1326603 T 12-12-2001 WO 0039903 A1 06-07-2000 DE 59902424 D1 26-09-2002 DK 1145397 T3 09-12-2002 EP 1145397 A1 17-10-2001 ES 2178498 T3 16-12-2002 JP 2002534942 T 15-10-2002
US 3716994	A	20-02-1973	NONE
US 4720214	A	19-01-1988	GB 2192923 A ,B 27-01-1988 NO 872128 A ,B, 23-11-1987